

IN THE CLAIMS

PLEASE AMEND THE CLAIMS AS FOLLOWS:

1. (currently amended) An apparatus for monitoring a use in a wireless remote site monitoring system, the apparatus comprising:

a remote sensor configured to:

receive a command to enable ~~or disable~~ the sensor,

detect an environmental condition at the remote site upon receipt of a command to enable the sensor, and

obtain raw data that is of an concerning the detected environmental nature condition;

a memory device configured to store calibration information;

a control board including a microprocessor and a plurality of ~~serial~~ communication ports, one of the ~~serial~~ communication ports providing a link to the remote sensor, the control board configured to:

receive ~~and process~~ the raw data from a variety of types of data collection devices, including the remote sensor,

process the raw data based on at least the calibration information stored in the memory device,

place the processed data into at least one packet, ~~and~~

transmit the at least one packet in a wireless communication from the control board to a server using wireless communications, and

wirelessly download updates to the stored calibration information;

a battery configured to provide primary power to the control board; and

a solar panel configured to recharge the battery.

2. (currently amended) The apparatus ~~as in~~ of claim 1, wherein the remote sensor is a digital sensor.

3. (currently amended) The apparatus ~~as in~~ of claim 1, wherein the remote sensor is an analog sensor.

4. (currently amended) The apparatus ~~as in~~ of claim 3, further comprising ~~an analog to digital~~ a converter linked to the control board, the converter configured to convert raw data from the analog sensor into digital data.

5. (currently amended) The apparatus ~~as in~~ of claim 2, wherein the digital sensor is compatible with a protocol selected from the group consisting of serial data interface twelve (SDI-12) protocol, 12C, RS-232, and RS-432.

6-9. (cancelled)

10. (currently amended) The apparatus ~~as in~~ of claim 1, wherein the remote sensor comprises a temperature sensor configured to measure temperature.

11-12. (cancelled)

13. (currently amended) The apparatus ~~as in~~ of claim 1, wherein the remote sensor comprises a voltage sensor configured to measure a voltage of a battery system.

14. (cancelled)

15. (currently amended) The apparatus ~~as in~~ of claim 1, wherein the remote sensor monitors a liquid level.

16-20. (cancelled)

21. (currently amended) The apparatus ~~as in of~~ claim 1, wherein the ~~compressed data packet~~ is transmitted to a base station or General Packet Radio Service/Global System for Mobile Communication (GPRS/GSM) gateway.

22-25. (cancelled)

26. (currently amended) The apparatus ~~as in of~~ claim 1, wherein the data is an N-byte wide message.

27. (currently amended) The apparatus ~~as in of~~ claim 26, wherein the N-byte wide message is a maximum of 96 bytes.

28. (currently amended) The apparatus ~~as in of~~ claim 26, wherein the N-byte wide message is a maximum of 512 bytes.

29. (currently amended) The apparatus ~~as in of~~ claim 26, wherein the N-byte wide message is comprised of a header and sensor data.

30-34. (cancelled)

35. (currently amended) The apparatus ~~as in of~~ claim 1, ~~further comprising a~~ ~~wherein the~~ memory device is further configured to store the raw data.

36. (currently amended) The apparatus ~~as in of~~ claim 35, wherein the data is stored based upon an identifier associated with the remote sensor.

37-96. (cancelled)